



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
10.05.2023 Bulletin 2023/19

(51) International Patent Classification (IPC):
F24F 13/20 ^(2006.01) **B01L 1/02** ^(2006.01)

(43) Date of publication A2:
15.02.2023 Bulletin 2023/07

(52) Cooperative Patent Classification (CPC):
F24F 13/20; B01L 1/025

(21) Application number: **22189513.9**

(22) Date of filing: **09.08.2022**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME
Designated Validation States:
KH MA MD TN

(71) Applicant: **Espec Corp.**
Kita-ku
Osaka-shi
Osaka 530-8550 (JP)

(72) Inventor: **TANABE, Masatoshi**
Osaka 530-8550 (JP)

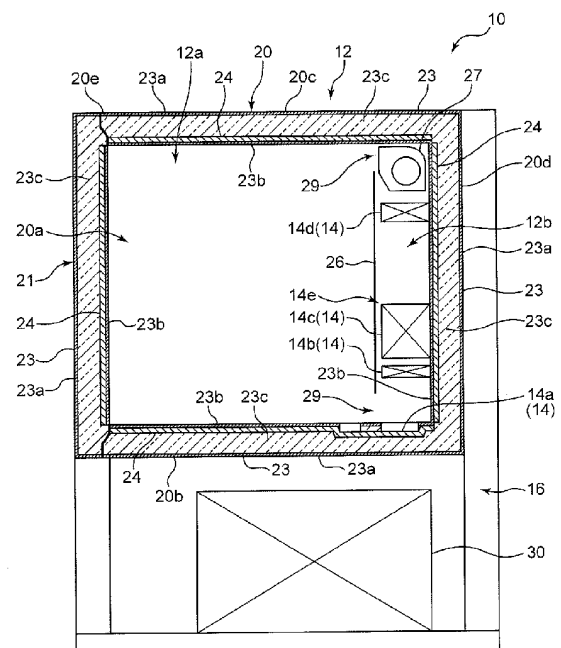
(74) Representative: **SSM Sandmair**
Patentanwälte Rechtsanwalt
Partnerschaft mbB
Joseph-Wild-Straße 20
81829 München (DE)

(30) Priority: **11.08.2021 JP 2021131223**

(54) **ENVIRONMENTAL TESTING DEVICE**

(57) An environmental testing device includes a heat insulation chamber that includes a test chamber and is formed using a heat insulation panel that is electrically conductive. The heat insulation chamber includes a chamber body having an entrance and a door that opens and closes the entrance. A heat insulation panel forming the chamber body includes an outer panel and an inner panel. A radiation-absorbent material is disposed between the outer panel and the inner panel. The heat insulation panel forming the chamber body and a heat insulation panel forming the door are connected to each other in an electrically conductive manner.

FIG.1





EUROPEAN SEARCH REPORT

Application Number

EP 22 18 9513

5

10

15

20

25

30

35

40

45

50

55

2

EPO FORM 1503 03.82 (P04C01)

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	KR 102 012 602 B1 (DYMSTEC CO LTD [KR]) 20 August 2019 (2019-08-20)	1	INV. F24F13/20 B01L1/02
A	* paragraph [0001] - paragraph [0005] * * paragraph [0011] - paragraph [0018] * * figures 1-4,12 *	2-9	
X	US 10 808 946 B2 (CARON PRODUCTS AND SERVICES INC [US]) 20 October 2020 (2020-10-20)	1	
A	* column 13, line 3 - line 57 * * column 19, line 31 - line 39; figures *	2-9	
A	US 8 557 572 B2 (KOBAYASHI KUNIYOSHI [JP]; BUSUJIMA HIROKI [JP] ET AL.) 15 October 2013 (2013-10-15) * figure 12 *	1-9	TECHNICAL FIELDS SEARCHED (IPC) F24F B01L
A	WO 2007/111105 A1 (SANYO ELECTRIC CO [JP]; BUSUJIMA HIROKI [JP]) 4 October 2007 (2007-10-04) * paragraph [0024] - paragraph [0050]; figures *	1-9	
A	CN 111 097 557 A (KUNSHAN JINXINHONG INTELLIGENT EQUIPMENT TECH CO LTD) 5 May 2020 (2020-05-05) * the whole document *	1-9	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 29 March 2023	Examiner Arndt, Markus
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 22 18 9513

5

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

29-03-2023

10

15

20

25

30

35

40

45

50

55

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 102012602	B1	20-08-2019	NONE
US 10808946	B2	20-10-2020	CA 2992938 A1 26-01-2017
		KR 20180033557 A 03-04-2018	
		US 2018216833 A1 02-08-2018	
		WO 2017014873 A1 26-01-2017	
US 8557572	B2	15-10-2013	EP 2180037 A1 28-04-2010
		JP 5011488 B2 29-08-2012	
		JP 2010051218 A 11-03-2010	
		US 2010173401 A1 08-07-2010	
		US 2012258528 A1 11-10-2012	
		US 2012264201 A1 18-10-2012	
		WO 2010024182 A1 04-03-2010	
WO 2007111105	A1	04-10-2007	CN 101410504 A 15-04-2009
		EP 2000529 A2 10-12-2008	
		JP 4916201 B2 11-04-2012	
		JP 2007259715 A 11-10-2007	
		KR 20090009823 A 23-01-2009	
		US 2009227008 A1 10-09-2009	
		WO 2007111105 A1 04-10-2007	
CN 111097557	A	05-05-2020	NONE